IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

SENTER BRASHEARS et al.

Appl. No.

Filed: Herewith

For:

System And Method For Handling Load And/Or Store Operations In A Superscalar Microprocessor Confirmation No. To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: SP036.C10 (1397.012000A)

Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- □ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- □ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - □ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to

(Continuation of Appl. No. 09/336,589; Filed: June 21, 1999)

the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ c. Attached is our PTO-2038 Credit Card Payment Form [OR] Check No.

 _____ in the amount of \$ _____ in payment of the fee under 37

 C.F.R. § 1.17(p).
- □ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Attached is our PTO-2038 Credit Card Payment Form [OR] Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - □ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

(Continuation of Appl. No. 09/336,589; Filed: June 21, 1999)

□ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

- ☐ 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- Zopies of the documents except AB13, AC13 and AD13 were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/336,589, filed June 21, 1999, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Copies of documents AB13, AC13 and AD13 are attached. Copies of all other documents, previously submitted are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Thomas C. Fiala

Attorney for Applicants Registration No. 43,610

Date: 11 17 03 1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600 ATTY. DOCKET NO.

APPLICATION NO.

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EXAMINER INITIAL			CUMENT MBER	DATE	NAME	CI	LASS	SUB- CLASS	FILING DATE	
	AA1	3,3	346,851	10/1967	Thornton et al.					
	AB1	3,5	541,528	11/1970	Randell					
	AC1	3,7	771,138	11/1973	Celtruda et al.		-			
	AD1	3,7	789,365	01/1974	Jen et al.					
	AE1	3,9	916,388	10/1975	Shimp et al.					
	AF1	4,0	34,349	07/1977	Monaco et al.					
	AG1	4,0	84,235	04/1978	Hirtle			1		
	AH1	4,1	189,768	02/1980	Liptay et al.			1		
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	AI1	0 4	179 390 B1	04/1992	EPO			İ	Yes No	
	AJ1	0 4	26 393 B1	05/1991	EPO			•	Yes No	
	AK1	0 4 A2/	119 105 'A3	03/1991	EPO				Yes No	
	AL1	0 4	02 856 B1	12/1990	EPO				Yes No	
			OTHER (Inc.)	luding Autho	r, Title, Date, Pertine	nt Bassa	ata \			
	AM	1	Acosta, Re	amón D. et a ce in Multip	al., "An Instruction Issole Functional Unit Proc No. 9, September 1986,	suing Appr	oach to	Enhanci	.w.	
***	AO	1	Agerwala (et al., "Hig Division, Ma	gh Performance Reduced I rch 31, 1987, pp. 1-61.	Instructio	n Set I	Processor	s," IBM	
	AR	1	Aiken, A. Technique	and Nicolau *," pp. 221-	ı, A., "Perfect Pipelini 235.	.ng: A New	Loop I	Paralleli	zation	
	AS	1	Andrews, No. 9, May	N., "Distinc , 1, 1989,	tions Blur Between DSP Littleton, Mass., pp. 8	Solutions	," Сотұ	outer Des	ign, Vol. 28,	
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Page 2 of 21 APPLICATION NO. ATTY. DOCKET NO. FORM PTO-1449 SP036.C10 To Be Assigned APPLICANT: SENTER BRASHEARS et al. INFORMATION DISCLOSURE STATEMENT FILING DATE: Herewith GROUP: To Be Assigned U.S. PATENT DOCUMENTS EXAMINER DOCUMENT INITIAL DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AA2 4,189,772 02/1980 Liptay AB2 4,200,927 04/1980 Hughes et al. AC2 10/1980 Bernhard et al. 4,228,495 AD2 Strecker et al. 4,236,206 11/1980 AE2 4,296,470 10/1981 Fairchild et al. AF2 4,315,314 02/1982 Russo AG2 4,317,170 02/1982 Wada et al. Wad<u>a et al.</u> AH2 4,396,982 08/1983 FOREIGN PATENT DOCUMENTS EXAMINER TRANSLATION INITIAL DOCUMENT DATE COUNTRY CLASS SUB-NUMBER CLASS AT2 0 377 991 07/1990 EPO Yes A2/A3 No AJ2 0 372 751 06/1990 EPO Yes A2/A3 No AK2 0 368 332 B1 05/1990 EPO No 0 354 585 B1 02/1990 EPO Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Bakoglu, H.B. et al., "IBM Second-Generation RISC Machine Organization", 1990 AΜ <u>2</u> IEEE, pp. 173-178. Charlesworth, A.E., "An Approach to Scientific Array Processing: The AN Architectural Design of the AP-120B/FPS-164 Family, " Computer, Vol. 14, September 1981, pp. 18-27. Colwell, R.P. et al., "A VLIW Architecture for a Trace Scheduling Compiler," Proceedings of the 2^{nd} International Conference on Architectural Support for ΑO 2 Programming Languages and Operating Systems, Oct. 5-8, 1987, California, pp. 180-192. Crawford, J., "The Execution Pipeline of the Intel i486 CPU," IEEE, 1990, pp. AR 2 254-258. Faix, M. and Schuenemann, C., "Combined Macro/Micro Program Machine," *IBM Technical Disclosure Bulletin*, Vol. 14, No. 1, June 1971, p. 298. AS

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

EXAMINER

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ATTY. DOCKET NO. SP036.C10

APPLICATION NO. To Be Assigned

INFORMATION DISCLOSURE STATEMENT

APPLICANT: SENTER BRASHEARS et al.

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EXAMINER INITIAL			CUMENT IBER	DATE	NAME	CLAS	S SUB- CLASS	FILING DATE
	AA3	4,4	10,939	10/1983	Kawakami			
	AB3	4,4	34,461	02/1984	Puhl			
	AC3	4,4	54,578	06/1984	Matsumoto et al.			
	AD3	4,4	56,955	06/1984	Yanagita et al.			
	AE3	4,4	59,657	07/1984	Murao			
	AF3	4,4	76,525	10/1984	Ishii			
	AG3	4,5	14,803	04/1985	Agnew et al.			
	AH3	4,5	69,016	02/1986	Hao et al.	_		
				FORE	IGN PATENT DOCUMENTS			
EXAMINER ENITIAL			UMENT BER	DATE	COUNTRY	CLAS	S SUB- CLASS	TRANSLATION
	AI3	0 1	71 595 B1	02/1986	EPO			Ye
	AJ3	0 1	36 179 A2	04/1985	EPO			. Ye
	AK3	2 5	75 564	07/1986	FR			Ye N
	AL3 2 011 682 A		07/1979	GB	ŀ		Ye	
	AN	<u>3</u>	Garth, S.	C.J., "Combi	ning RISC and CISC in PC	Systems,"	IEEE, pp. 1	0/1-10/5.
	AO	3	Goodman, a	J.R. and Hsu cks," <i>ACM</i> , 1	, W., "Code Scheduling an 988, pp. 442-452.	d Register	r Allocation	in Large
	AR	3	Gross et a	al., "Optimi on Microprog	zing Delayed Branches," F ramming, October 5-7, 198	Proceedings 2, pp. 114	s of the 5th 1-120.	Annual
	AS	<u>3</u>	Groves, R Architectu	.D. and Oehlo	er, R., "An IBM Second Ge 1989, pp. 134-137.	neration I	RISC Processo	or
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EXAMINER INITIAL			CUMENT MBER	DATE	NAME	CL	ASS	SUB- CLASS	FILING DATE
	AA4	4,	587,612	05/1986	Fisk et al.				
	AB4	4,	626,989	12/1986	Torii				
	AC4	4,	654,781	03/1987	Schwartz et al.				
	AD4	4,	675,806	06/1987	Uchida			Î	
	AE4	4,	714,994	12/1987	Oklobdzija et al.				
	AF4	4,	722,049	01/1988	Lahti				
	AG4	4,	734,852	03/1988	Johnson et al.				
	AH4	4,	739,471	04/1988	Baum et al.				
				FORE	IGN PATENT DOCUMENTS			_	
EXAMINER INITIAL			CUMENT MBER	DATE	COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AI4	0	170 398 A3	02/1986	ЕРО				Yes: No
	AJ4	0 :	272 198 A2	06/1988	EPO				Yes No
	AK4	0 :	380 854 A3	08/1990	EPO				Yes. No
	AL4	2 :	230 116 A	10/1990	GB				Yes
				1	r, Title, Date, Pertinen				No
	AM	4	processor Hennessy	," pp. 6/1-6	outer Architecture: A Qua				
	AO	4	Horst, R.I	N. et al., "	Multiple Instruction Iss	ue in the	· NonSt	top Cyclor	ne
	AR	4			nt Repair for High-Pefor . <i>On Computers</i> , Vol. C-3				
	AS	4	Compiler (Code Generat	ng Parallel Microprocess or," <i>Proceedings of the</i> 88, pp. 45-53.				
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EXAMINER INITIAL		DOC!	UMENT BER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA5	4,7	39,472	04/1988	Hayashi			
	AB5	4,7	52,873	06/1988	Shonai et al.			
	AC5	4,7	58,948	07/1988	May et al.			
	AD5	4,7	60,519	07/1988	Papworth et al.			
	AE5	4,7	66,566	08/1988	Chuang			
	AF5	4,7	71,376	09/1988	Kamiya			1
	AG5	4,7	77,592	10/1988	Yano		İ	
	AH5		07,115	02/1989	Torng		<u> </u>	
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	AI5	0 4	61 257 A1	12/1991	EPO			Yes No
	AJ5	0 4	73 420	03/1992	EPO			Yes No
	AK5	0 1	47 775	07/1985	EPO			Yes
	AL5	3 6	03 240	08/1987	DE			Yes
	•	•	OTHER (Incl	uding Author	, Title, Date, Pertinent	Pages etc.)	<u> </u>	
			Hwu et al	., "HPSm, a H	igh Performance Restrict	ed Data Flow	Architect	ure Having
	АМ	5		unctionality,	igh Performance Restrict " Proceedings from ISCA-			
	AM	5	Minimal Fipp. 297-30	nctionality, 06. roprocessor A		-13, Tokyo, Ja	pan, June	2-5, 1986, tel
			Minimal Fr pp. 297-30 i486™ Mic. Corporation	roprocessor F	" Proceedings from ISCA-	.13, Tokyo, Ja	pan, June 40552, In	2-5, 1986, tel
	AN	<u>5</u>	Minimal Fr pp. 297-36 i486™ Mic. Corporation i486™ Mic. Corporation Jelemensky Time Contr	roprocessor Fon, Santa Cla	"Proceedings from ISCA- Wardware Reference Manual Ara, California, 1990. Programmer's Reference Ma Ara, California, 1990. "New Microcomputer Feat ons," Electro Conference	nual, Order No. 2	pan, June 40552, In 60. 240486	2-5, 1986, tel , Intel
	AN	<u>5</u>	i486™ Mic. Corporation i486™ Mic. Corporation i486™ Mic. Corporation Jelemensky Time Control Los Angele	roprocessor Fon, Santa Cla	"Proceedings from ISCA- Wardware Reference Manual Ara, California, 1990. Programmer's Reference Ma Ara, California, 1990. "New Microcomputer Feat ons," Electro Conference	enual, Order No. 2	pan, June 40552, In 0. 240486 Hardware 14, Apri	2-5, 1986, tel , Intel For Real- l 11, 1989,
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	AA6	4,8	14,976	03/1989	Hansen et al.					
	AB6	4,8	58,105	08/1989	Kuriyama et al.					
	AC6	4,8	97,810	01/1990	Nix					
	AD6	4,9	01,228	02/1990	Kodama					
	AE6	4,9	03,196	02/1990	Pomerene et al.					
	AF6	4,9	24,376	05/1990	Ooi					
	AG6	4,9	26,323	05/1990	Baror et al.					
	AH6		42,520	07/1990	Langendorf					
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	AI6	0 2	59 095	03/1988	EPO			Ye:		
	AJ6	0 2	72 198	06/1988	EPO			Yes		
	AK6	0 3	02 999	02/1989	EPO			Yes		
	AL6	0 3	77 990	07/1990	EPO			Yes		
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	AM	<u>6</u>	1989, 134	pages. al., "Avail	Super-Scalar Processor De able Instruction-Level Pages, Proceedings of the	arallelism	for Superso	calar and		
	AN	<u>6</u>	Architect 1989, pp.		for Programming Language	es and Oper	ating Syste	ems, April		
	AO	<u>6</u>	Jouppi, N	.H., "Integr 9, pp. 229-2	ation and Packaging Plate 32.	eaus of Pro	cessor Peri			
	AR	<u>6</u>	Paralleli	sm and Its E	nuniform Distribution of ffect on Performance," <i>II</i> 1989, pp. 1645-1658.					
-	AS	<u>6</u>	Keller, R 1975, pp.		head Processors," <i>Comput</i>	ing Surveys	, Vol. 7, N	No. 4, December		
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Page 7 of 21 ATTY. DOCKET NO. APPLICATION NO. FORM PTO-1449 SP036.C10 To Be Assigned APPLICANT: SENTER BRASHEARS et al. INFORMATION DISCLOSURE STATEMENT FILING DATE: Herewith GROUP: To Be Assigned U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE. NUMBER CLASS AA7 4,942,525 07/1990 Shintani et al. AB7 4,985,825 01/1991 Webb, Jr. et al. AC7 4,992,931 02/1991 Hirasawa AD7 4,992,934 02/1991 Portanova et al. AE7 4,992,938 02/1991 Coke et al. Blaner et al. AF7 5,003,462 03/1991 AG7 5,051,940 09/1991 Vassiliadis et al. AH7 5,075,849 Kuriyama et al. 12/1991 FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER CLASS 0 436 092 AI7 07/1991 EPO Yes No 0 465 321 A2 AJ7 01/1992 EPO Yes No AK7 Yes-GB 2 241 801 09/1991 United Kingdom No AL7 Yes JP 2-148238 06/1990 Japan No. OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Lam, M.S., "Instruction Scheduling For Superscalar Architectures," Annu. Rev. MΑ 7 Comput. Sci., Vol. 4, 1990, pp. 173-201. AN 7 Lee, R.B., "Precision Architecture," COMPUTER, January 1989, pp. 78-91. McGeady, S., "The i960CA Superscalar Implementation of the 80960 Architecture", ΑO 7 1990 IEEE, pp. 232-240.

AS The Design of the 88000 RISC Family, " IEEE MICRO, Vol. 9, No. 2, April 1989, Los Alamitos, CA, pp. 26-38.

McNeley, K.J. and Milutinovic, V.M., "Emulating a Complex Instruction Set

Computer with a Reduced Instruction Set Computer," IEEE Micro, Vol. 7, No. 1, pp.

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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ATTY. DOCKET NO. FORM PTO-1449 SP036.C10 APPLICANT: SENTER BRASHEARS et al. INFORMATION DISCLOSURE STATEMENT

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	AA8	5,1	101,341	03/1992	Circella et al.		_	
	AB8	5,1	127,091	06/1992	Boufarah et al.			
	AC8	5,1	133,072	07/1992	Buzbee			
	AD8	5,1	133,077	07/1992	Karne et al.			
	AE8	5,1	L48,528	09/1992	Fite et al.			
	AF8	5,1	148,536	09/1992	Witek et al.			
	AG8		155,843	10/1992	Stamm et al.			
	АН8		168,571	12/1992	Hoover et al.			
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-	AI8	JР	4-77925	03/1992	Japan			Yes No
	AJ8	JР	4-219825	08/1992	Japan			Yes No
	AK8	JР	58-217054	12/1983	Japan			Yes No
	AL8	JP	59-154548	09/1984	Japan			Yes No
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	АМ	8	Pipelining 78-85.	g): A Novel	"SIMP (Single Instructi High-Speed Single-Proce	ssor Architectu	ire," ACM,	1989, pp.
	AN	8	IEEE 1991	. et al., "A Custom Inte	a 80 Mflops 64-bit Micro egrated Circuits Confere	processor for P nce, pp. 15.2.1	Parailei C 1-15.2.4.	computer",
	AO	8	Workstatio		architecture and Compile edings from IEEE Compcon 4-218.			
	AR	<u>8</u>			nstructions help superm 1. 33, No. 26, November		per crunch	ing,"
	AS	<u>8</u>	Set of Ger	neral Purpos	tiple Operation With Su te Registers," <i>IBM Techn</i> New York, NY, pp. 2727	ical Disclosure		
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EXAMINER INITIAL			CUMENT IBER	DATE		NAME	CL	ASS	SUB- CLASS	FILING DATE
	AA9	5,1	.85,868	02/1992	•	Tran				
	AB9	5,1	.93,206	03/1993	1	Mills				
	AC9	5,2	26,126	07/1993		McFarland et al.				
	AD9	5,2	30,068	07/1993	—	Van Dyke <i>et al</i> .				
	AE9	5,2	251,306	10/1993	\neg					
	AF9	1	17,740	05/1994	1	Sites				
	AG9		23,489	06/1994	_	Bird				<u> </u>
	AH9		55,460	10/1994	\dashv	Eickenmeyer et al.				
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INITIAL			CUMENT IBER	DATE	'	COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AI9	61-	33546	02/1986	,	Japan				Yes No
	AJ9	1-2	86030	11/1989	١,	Japan				Yes
		+		/	+	_				No
1	AK9	2-1	.30634	05/1990	١,	Japan				Yes. No
	AL9				1				,	Yes
										No
	AN	9	Patent Ab	stracts of Ja	apa:	n, Vol. 017, No. 084 (P-1	.490)	, Febri	uary 19,	1993.
	AO	9	Patent Ab	stracts of Ja	apai	n, Vol. 009, No. 006 (P-3	326),	Janua	ry 11, 19	85.
	AR	<u>9</u>				n, Vol. 010, No. 089, Apr 11 November 1985.	il 19	986, &	JP, A, 6	0 225 943
	AS	<u>9</u>	Microarch		roc	ssues Regarding HPS, A Hi eedings of the 18th Annua 16.				programming,
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Processor, " IEEE, 1990, pp. 344-354.

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Smith, M.D. et al., "Boosting Beyond Static Scheduling in a Superscalar

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. SP036.C10

APPLICATION NO. To Be Assigned

APPLICANT: SENTER BRASHEARS et al.

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EXAMINER INITIAL			TUMENT IBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA11	5,5	92,636	01/1997	Popescu et al.			*
	AB11	5,6	06,676	02/1997	Grochowski et al.			·,
	AC11	5,6	19,668	04/1997	Zaidi			
	AD11	5,6	25,837	04/1997	Popescu et al.			
	AE11	5,6	27,983	05/1997	Popescu et al.			
	AF11	5,6	51,125	07/1997	Witt et al.			
	AG11	5,6	59,782	08/1997	Senter et al.			
	AH11	5,6	89,720	11/1997	Nguyen et al.			
					GN PATENT DOCUMENTS			
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	AI11							Yes No
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	АМ	11	Proceedin		entation of Precise Inte ch Annual International			
	AN	11			Emplementing Precise Int Computers, Vol. 37, No.			
	AO	<u>11</u>	Internati	onal Conferen	on Multiple Instruction ace on Architectural Sup il 1989, pp. 290-302.			
	AR	<u>11</u>	Pipelined	l., "Instruct Processors," , pp. 27-34.	ion Issue Logic for Hig 14 th Annual Int'l Sympo	h-Performance, osium on Compu	Interrup ter Archit	table ecture, June
	AS	<u>11</u>		J.E., <u>Design</u> on, 1970, pp.	of a Computer: The Con 58-140.	trol Data 6600), Control	Data
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	AA12	5,7	08,841	01/1998	Popescu et al.					
	AB12	5,7	68,575	06/1998	McFarland et al.					
	AC12	5,7	78,210	07/1998	Henstrom et al.					
	AD12	5,7	97,025	08/1998	Popescu et al.					
	AE12	5,8	32,205	11/1998	Kelly et al.					
<u> </u>	AF12	5,8	32,293	11/1998	Popescu et al.					
	AG12	4,8	39,797	06/1989	Katori et al.					
	AH12	5,2	33,694	08/1993	Hotta et al.					
	•			FOREIG	N PATENT DOCUMENTS			*		
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	AM	12	TEEE Tran	s. On Computer	on and Parallel Execution of Concurrence p. 1-199.	per 1970,	pp. 889-8	95.		
-	AO	12			ntation of Concurrency with l. C-22, No. 8, August 1973			," IEEE		
	AR	12			icient Algorithm for Explo 1. 11, January 1967, pp. 29		iple Arit	hmetic		
	Uht, A.K., "An Efficient Hardware Algorithm to Extract Concurrency From General-AS 12 Purpose Code," Proceedings of the 19th Annual Hawaii International Conference on System Sciences, 1986, pp. 41-50.									
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. SP036.C10

APPLICATION NO. To Be Assigned

APPLICANT: SENTER BRASHEARS et al.

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	AS	14	Algorithm Stream/Mu Processir	ns for the ": ultiple Inst: ug Society o	nslation of Kuga, M Shinpu" Processor B ruction Pipelining) f Japan, Informatio 9, pages 1603-1624.	ased on the Method," <i>Ti</i> n Processing	SIMP (Si cansactio	ngle Inst	ruction ormation
	AT	14		M., Supersco	alar Microprocessor	Design, Pre	entice Ha	11, 1991,	pages 50-53
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APPLICANT: SENTER BRASHEARS et al.

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	AS	<u>15</u>	English- 77925, (language tra March 12, 19	insla:	tion of Japanese Laid date of publication)	-Open Pa , 33 pag	atent A ges.	pplicatio	n No. H4-
	AT	<u>15</u>	English- 217054,	language tra (December 16	inslat	tion of Japanese Laid 83 - date of publicat	-Open Pa	atent A 3 pages	pplicatio	n No. S58-
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APPLICANT: SENTER BRASHEARS et al.

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FORM PTO-1449
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